

CLAIMS

1. Catalytic process for oxidation or reduction of organic and inorganic compounds comprising contacting the organic or inorganic compound under oxidation or reduction conditions with a supported catalyst consisting of nickel as the active catalytic component promoted with silver or gold, the silver or gold being present in an amount between 0.001% to 30% by weight calculated on the amount of nickel in the catalyst.
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2. Process according to claim 1, wherein the catalytic process is dehydrogenation.
- 15 3. Process according to claim 1, wherein the catalytic process is SO₂ oxidation.
4. Process according to claim 1, wherein the catalytic process is NO reduction with CO.
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5. Process according to claim 1, wherein the catalytic process is CO methanisation.
- 25 6. Process according to claim 1, wherein the catalytic process is hydrogenation.
7. Process according to claim 1, wherein the catalytic process is ethane hydrogenolysis.
- 30 8. Process according to claim 1, wherein the support is alumina, titania or magnesium aluminium spinel.